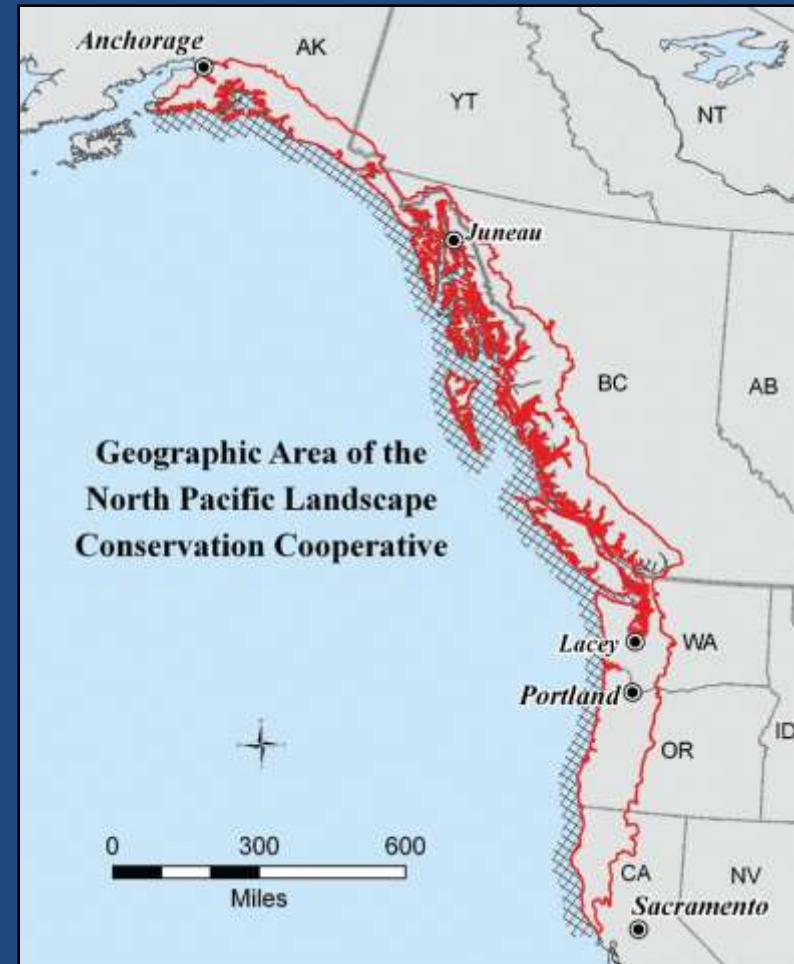


# North Pacific LCC FY 11 Funded Projects

Science/TEK Subcommittee  
February 29, 2012



# FY 11 Projects

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- RFP open 2 weeks
- Fairly broad
- 126 Proposals
- Requested: > \$9.2M
- Project leads:
  - Universities (43)
  - Federal Agencies (44)
  - State Agencies (8)
  - Provincial Government (3)
  - Tribes (1)
  - Local Government (1)
  - Nongovernmental Organizations (26)



# FY 11 Projects

- Aquatic Landscapes (25)
  - Habitat/Temp (6)
  - Habitat/fish & inverts. (11)
  - Hydrology (5)
  - Species Specific (3)
- Terrestrial Landscapes (21)
  - Habitat/Vegetation (7)
  - Habitat/wildlife (4)
  - Species specific (10)
- Birds (8)
- Glaciers (6)
- Habitat Connectivity (6)



# FY 11 Projects

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- Vulnerability Assessments (13)
- Adaptation Strategies/Planning ( 5)
- Threats (9)
  - Sea Level Rise (4)
  - Fire (3)
  - Disease (1)
  - Contaminants (1)
- Data Mgmt. Systems/  
Mapping/Communications (14 )
- Identification Priorities (6)
- Other (8)



# FY 11 Funded Projects

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- Science Advisory Team (27 members)
- 11 projects funded from response to RFP
- > \$800,000
- Project leads
  - Universities (4)
  - Federal Agency (2)
  - NGO (5)
- Additional project funds obligated (\$63,000)
  - \$32,000 – syntheses climate research (2 Univ.)
  - \$31,000 – 3 regional workshops
- Proposals given to AK CSC (1 funded) & NW CSC (3 funded)

# FY 11 Funded Projects

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## Vulnerability Assessments:

- Two case studies (Univ. Wash. - Lawler)
  - Case study British Columbia protected areas
  - Case study Willamette Basin, OR
  - Species sensitivities, projected changes vegetation & species distributions
  - Develop adaptation strategies & species/land management
  - 2 other case studies funded by Great Northern LCC
- Nearshore species and habitats (USGS - Reusser)
  - Fish, invertebrates, microalgae
  - Integration geographic distribution, life histories, climate change exposure
  - Analysis species/habitats at-risk, info. for mitigation schemes
  - Web-based tool development

# FY 11 Funded Projects

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## Landscape-Scale Analyses and Information:

- PNW Forest Soils: Drought Sensitive Areas (CBI – Bachelet)
  - Detailed soil maps & soil vulnerability index
  - Forecast map - trees most affected changes temp. and precip.
  - Comparison modeling approaches
  - Inform mitigation strategies
  
- PNW Wetland Ecosystems (Univ. Wash. - Hamlet)
  - Develop hydrologic projections for Pacific NW wetlands for 2020s, 2040s and 2080s
  - Inform adaptation strategies and restoration investment
  - Robust relationship soil moisture/changes in wetlands
  - Need to monitor hydroperiod wetlands (90% studies don't)
  - Need 2 more yrs. paired monitoring/modeling



# FY 11 Funded Projects

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## Landscape-Scale Analyses and Information:

- Sea Level Rise: Humboldt Bay NWR (USGS -Takekawa)
  - Compile detailed baseline data needed model SLR effects
  - Apply modeling at parcel level relevant to land managers
  - Provide managers info on value different datasets
  - Other sites funded by CA LCC, desire to expand project





# FY 11 Funded Projects

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## Conservation Priorities:

- WA Connected Landscapes Project (TNC – McRae)
  - Development mapping tools used analyze regional habitat connectivity for suites of species
  - Highlights connectivity and areas with pinch points
  - Identify essential habitats and linkages
  - Also funded by Great Northern LCC
  
- Forest Landscape Corridors & Connectivity (Univ. Montana - Landguth)
  - Model functional (genetic and dispersal) connectivity
  - Forest and sub-alpine habitat associated species
  - Estimate current habitat area, fragmentation, & corridor connectivity and predict future changes under 3 climate regimes
  - Identify areas high potential isolation wildlife populations & low potential movement in & out patches
  - Use for prioritization keystone corridors, areas assisted migration

# FY 11 Funded Projects

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## Conservation Priorities:

- Distributions & Abundance N. Pacific Birds (PRBO- Ballard)
  - Model current and future bird distribution & abundance
  - Interactive maps identify current & future high priority areas – connectivity and conservation
  - ID most important environmental factors – distrib. & abund.
  - Assess bird species and populations at greatest risk declines
- Potential Effects Climate Change on Freshwater & Forest Ecosystems (Ecotrust – Bidlack & Mertens)
  - Develop conservation & restoration priorities on-line tool
  - Provide access climate change, watershed condition, freshwater and forest system data
  - Assist managers prioritize conservation and restoration work

# FY 11 Funded Projects

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## Workshops and Focus Groups:

- Expert Focus Groups – Freshwater & Marine/Coastal Ecosystems (NWF – Siemann & Tillman)
  - 10 expert panel discussions and 2 expert workshops
  - Comprehensive information climate change impacts, science/information/tool needs and adaptation approaches
  - Finalize two reports – first comprehensive compilation and synthesis of scientific literature entire range NPLCC
- Cross-boundary Data Integration Workshop (ACRC – Goldstein)
  - Second workshop S.E. Alaska and B.C.
  - Support development cross-boundary maps and data sets
  - Meet common conservation goals, engage group problem-solving and benefit large-scale management effort

# QUESTIONS?

